

Instruction Book
No. 8229

Concentric Light Diffusers
for
Enclosed Arc Lamps

GENERAL ELECTRIC COMPANY

SCHENECTADY, N. Y.

SEPT., 1903



CONCENTRIC LIGHT DIFFUSERS FOR ENCLOSED ARC LAMPS

DIFFUSERS



ENCLOSED ARC LAMP, DOUBLE GLOBE TYPE, EQUIPPED
WITH CONCENTRIC LIGHT DIFFUSER

The Concentric Light Diffuser is designed for use with Enclosed Arc Lamps for indoor illumination. It consists of a pressed steel diffuser with a white enameled surface, used with an opalescent glass lower shade. Its function is to modify the light of the arc lamp so as to produce a soft, white, even illumination free from dense shadows.

LAMPS

The Concentric Light Diffuser can be attached directly to any type of General Electric Enclosed Arc

Lamp equipped with the single globe type of casing. For a lamp equipped with a double globe casing, a small ring or adapter, Cat. No. 27833, is required. This should be attached to the lower edge of the casing.

HEIGHT OF LAMPS

It is important that the lamps be installed as high as possible on all ceilings up to 18 feet in height. This places the arc out of the direct line of vision, thus preventing retinal fatigue and the appearance of after-images, and at the same time improving the general distribution.

For ceilings having a height of 20 feet or over, it may be necessary to use suspension rods which should be of such length as to bring the bottom of the lamps about 15 feet above the floor.

INSTALLING

Care should be taken in handling the diffuser not to soil or mar the enameled surface. The shipping envelope should not be removed until just before placing the diffuser on the lamp.

ATTACHING TO LAMPS

To Attach to a Lamp Equipped with Single Globe Casing. Remove the casing and secure the metal diffuser in position at the bottom of the casing. After making sure that the screws pass through the holes in the collar of the diffuser, the set nuts should be tightened to prevent the screws from working loose. The casing with the diffuser attached may then be placed on the lamp.

To Attach to a Lamp Equipped With Double Globe Casing. The adapter ring, Cat. No. 27833, must be

clamped around the lower flange of the casing. The diffuser should then be attached to the adapter by the screws in the ring.



'ENCLOSED ARC LAMP, SINGLE GLOBE TYPE, EQUIPPED
WITH CONCENTRIC LIGHT DIFFUSER

To Attach the Lower Shade to a Double Globe Lamp. Unscrew and remove the outer globe holder at the base of the lower frame. The shade can then be set in place and secured by means of the outer globe holder. The shade can be lowered for trimming.

To Attach Lower Shade to a Single Globe Lamp.
With Spider Support. Attach the spider support to the collar of the diffuser, using the lower set of holes. Be sure that the set nuts are securely tightened on the three



SHADE LOWERED FOR TRIMMING

screws. Attach the diffuser to the casing as previously described, and after it is placed on the lamp the lower shade can be suspended by the chain from the spider arms.

Two of the rings on the chain are permanently secured to two legs of the spider and the third is arranged

so that it can be unhooked, thus allowing the shade to swing to one side when the lamp is being trimmed.

With Tubular Attachment. Place the upper plate of the attachment over and at right angles to the lower portion of the lamp frame yoke, and secure the tubular support in position by means of the screws provided for the purpose. Unscrew the end ring and remove the lower shade holder. Fasten the shade in the holder and assemble as before, being sure to replace the end ring on the supporting tube. The shade may be lowered sufficiently for trimming the lamp without removing the end ring.

See that both diffuser and shade hang level when the lamp is installed.

It is not necessary to run direct current lamps with inverted arcs. *The upper carbon should be positive.* The lamps in all cases should be equipped with *light opal enclosing globes.*

Cat. No. 27602 covers the combination of Concentric Diffuser, Cat. No. 27571, and the lower shade, Cat. No. 2855.

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